

# Matthew Parker

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## EDUCATION

**Columbia University Mailman School of Public Health** - New York, New York

*Master of Science, Biostatistics/Pharmaceutical Statistics Track - GPA: 4.0*

**May 2020**

- Developed protocol for NIH phase III two-parallel-group randomized clinical trial
- Key coursework: Data Science, Statistical Computing with SAS, Relational Databases and SQL Programming, Biostatistical Methods, Clinical Trial Methodology

**University of Washington** - Seattle, Washington

*Bachelor of Science, Biochemistry - GPA: 3.6*

**June 2015**

Minor: Mathematics, Chemistry

- Selected as an oral presenter at the 2015 University of Washington Undergraduate Research Symposium
  - Head of Recruitment at Pi Kappa Alpha – successfully increased membership by 30%
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## SKILLS

- **Programming:** R, SAS, SQL, Git, VBA
  - **Statistics & Analytics:** Regression analysis, categorical data analysis, data tidying, exploratory data analysis, machine learning, healthcare data analysis
  - **Additional:** Microsoft Office (Word, Excel, PowerPoint, Outlook, Access), strong communication skills with ability to adapt in fast-paced environments
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## WORK EXPERIENCE

**Novo Nordisk** - Big Data & Analytics Center of Excellence - Plainsboro, New Jersey

*Intern/Graduate Co-op*

**June 2019 – Present**

- Led project to apply predictive analytics such as data mining and machine learning to predict Non-Alcoholic Steatohepatitis (NASH) using electronic medical records data from IBM Explorys
- Build and compare XGBoost and logistic regression models in R to improve accuracy of NASH prediction
- Create advanced queries to build tables and analyze real-world data within relational databases
- Explore feasibility of model application to additional dataset to generate heat map of potential NASH patients within the U.S.
- Present NASH model to internal stakeholders including Novo Nordisk Vice Presidents and North America Clinical Operations
- Competed in Novo Nordisk Innovation in Action Case Competition and internal obesity hackathon

**Friedman and Bruya Inc.** - Seattle, Washington

*Analyst*

**November 2015 – August 2018**

- Analyzed and organized chromatographic data for client presentation in Microsoft Office
- Created new and renovated existing macros using VBA to translate raw data, convert existing Excel reports, and increase internal productivity
- Pioneered and standardized procedures for use in the company's Vapor Analysis Department

**Seattle Children's Research Institute** - Center for Integrative Brain Research - Seattle, Washington

*Research Technician*

**June 2014 – June 2015**

- Investigated addiction behaviors in adult mice exposed to excessive sensory stimulation in infancy and adolescence for potential parallels to human development
- Assisted protocol design and executed trial experiments based on published research methodologies
- Collected and analyzed multiple data types in Excel for presentation to Seattle Children's personnel and the general public at University of Washington